

CLAIMS

1. A method of performing mixed mode communication between a first party using a first communication device and second party using a second communication device, comprising:

5 establishing a communication link between the first and second parties using a first communication mode;

receiving an input from the first party at a communication equipment of the first party to establish a second communication link using a second communication mode;

10 suspending the first communication mode at the first and second parties' communication equipment automatically in response to the input;

commencing a second communication link between the first and second parties using a second communication mode;

terminating the second communication link; and

15 upon terminating the second communication link, reestablishing a communication link using the first mode of communication.

2. A method of performing mixed mode communication as defined in claim 1, wherein receiving an input from the first part generates an explicit termination which
20 commences the suspending the first communication mode.

3. A method of performing mixed mode communication as defined in claim 1, wherein receiving an input from the first part generates an in-band switch message which commences the suspending the first communication mode.

4. A method of performing mixed mode communication as defined in claim 1,
wherein suspending the first communication mode comprises retaining state session
information to be used subsequently in commencing the reestablishing the
5 communication link using the first mode of communication.

5. A method of performing mixed mode communication as defined in claim 1,
wherein establishing the communication link using the first communication mode is
performed by a half duplex dispatch calling mode of communication.

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6. A method of performing mixed mode communication as defined in claim 1,
wherein establishing the communication link using the first mode of communication
is performed by a full duplex telephony mode of communication.

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7. A method of performing mixed mode communication as defined in claim 1,
wherein commencing the communication link using the second communication mode
is performed by a data calling mode of communication.

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8. A method of performing mixed mode communication as defined in claim 7,
wherein the data calling mode of communication is performed using packet data.

9. A method of performing mixed mode communication as defined in claim 7,
wherein the data calling mode of operation is performed using a TCP/IP protocol.

10. A method of performing mixed mode communication as defined in claim
7, wherein the data calling mode of operation is performed using a peer to peer
protocol.

5 11. A method of performing mixed mode communication as defined in claim
1, wherein the second communication mode comprises transferring an image file from
the first party to the second party.

10 12. A method of performing mixed mode communication as defined in claim
11, wherein the image file includes meta data.

13. A method of performing mixed mode communication as defined in claim
12, wherein the meta data includes text.

15 14. A method of performing mixed mode communication as defined in claim
12, wherein the meta data includes a voice tag.

16. A method of performing mixed mode communication as defined in claim
1 further comprising querying a network identifier of the second party prior to
20 commencing the second communication mode.

16. A method of performing mixed mode communication as defined in claim
15, wherein the querying is performed upon first establishing the communication link
using the first mode of communication.

17. A method of performing mixed mode communication as defined in claim
15, wherein the querying is performed using a circuit data mode of communication.

5 18. A method of performing mixed mode communication as defined in claim
15, wherein the querying is performed using an embedded signaling protocol.

19. A method of performing mixed mode communication as defined in claim
15, wherein the querying is performed using a short message service message.

10 20. A method of performing mixed mode communication as defined in claim
15, wherein the querying comprises requesting the network identifier from the second
party.

15 21. A method of performing mixed mode communication as defined in claim
15, wherein the querying comprises requesting the network identifier of the second
party from a server.

20 22. A method of performing mixed mode communication as defined in claim
1, wherein terminating the second communication link is performed by sending an
explicit termination message.

23. A method of performing mixed mode communication as defined in claim
11, further comprising, at the second party, upon reestablishing the communication

link using the first mode of communication, decoding the image at the second party while commencing communication using the first mode of communication.

24. A method of performing mixed mode communication as defined in claim
5 11, further comprising, at the second party, upon reestablishing the communication link using the first mode of communication, rendering the image at the second party while commencing communication using the first mode of communication.

25. A method of performing mixed mode communication as defined in claim
10 1, further comprising, upon establishing the communication link using the first mode of communication, instantiating an application to capture an image via a camera of the first communication device while the first communication link commences.

26. A method of transferring data during a voice call session between a first mobile communication device and a second mobile communication device, comprising:

- establishing a voice communication link between the first and second mobile communication devices using a voice communication mode;
- 5 receiving an input at the first communication device to establish a second communication link using a data communication mode;
- suspending the voice communication link;
- transferring a data file to the second mobile communication device from the
- 10 first mobile communication device using the data communication mode; and
- automatically resuming the voice communication link.

27. A method of transferring data during a voice call session as defined in claim 26, further comprising selecting the data file prior to transferring the data file, and after establishing the voice communication link.

28. A method of transferring data during a voice call session as defined in claim 27, wherein selecting the data file includes capturing an image at the first mobile communication device by means of a camera of the first mobile communication device, and wherein the image is the data file.

29. A method of transferring data during a voice call session as defined in claim 26, further comprising querying a network identifier of the second mobile communication device prior to commencing the data communication mode.

30. A method of transferring data during a voice call session as defined in claim 29, wherein the querying comprises requesting the network identifier from the second mobile communication device.

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31. A method of transferring data during a voice call session as defined in claim 30, wherein the querying is performed automatically by the first mobile communication device by embedding the query in the voice communication link.

10 32. A method of transferring data during a voice call session as defined in claim 30 wherein the querying is performed automatically upon first commencing the voice communication link.

15 33. A method of transferring data during a voice call session as defined in claim 30, wherein the querying comprises requesting the network identifier of the second mobile communication device from a server.

34. A method of binding a voice communication mode with a data communication mode during a communication session between a first party using a first communication device and a second party using a second communication device, at least the first communication device having an image capturing means, the method 5 comprising:

establishing a voice communication link between the first and second communication devices using a voice communication mode;

instantiating an application on the first communication device for binding the voice communication mode with the data communication mode;

10 receiving an input at the first communication device to establish a data communication link using the data communication mode;

suspending the voice communication link;

transferring a data file to the second mobile communication device from the first mobile communication device using the data communication mode; and

15 automatically resuming the voice communication link;

wherein the suspending, transferring, and resuming are integrated under control of the application.

35. A method of binding a voice communication mode with a data communication mode as defined in claim 34, wherein receiving the input comprises 20 receiving an input at a share button of the first communication device.

36. A method of binding a voice communication mode with a data communication mode as defined in claim 34, wherein the application facilitates the 25 first party in capturing an image in an image file via the image capture means of the

first communication device while commencing voice communication mode, and
wherein the image file is the data file transferred via the data communication mode.

37. A method of binding a voice communication mode with a data
5 communication mode as defined in claim 36, further comprising appending meta data
to the image file.

38. A method of binding a voice communication mode with a data
communication mode as defined in claim 37, wherein the meta data includes text.

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39. A method of binding a voice communication mode with a data
communication mode as defined in claim 37, wherein the meta data includes a voice
tag.

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40. A method of binding a voice communication mode with a data
communication mode as defined in claim 34, further comprising, upon terminating the
data communication mode and resuming the voice communication link , rendering the
data file at the second communication device while commencing the voice
communication mode.

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41. A method of binding a voice communication mode with a data
communication mode as defined in claim 34, further comprising, upon terminating the
data communication mode and resuming the voice communication link , decoding the
data file at the second communication device while commencing the voice
25 communication mode.

42. A method of performing mixed mode communication between a first party using a first communication device and second party using a second communication device, comprising:

- establishing a communication link between the first and second parties using a
- 5 first communication mode;
- receiving an input from the first party at a communication equipment of the first party to establish a second communication link using a second communication mode;
- commencing a second communication link between the first and second
- 10 parties using a second communication mode while maintaining the first communication mode; and
- terminating the second communication link while maintaining the first communication mode.